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352. "Two chords of equal but unknown lengths are drawn at random in a given circle; find the chance of their intersection."

[Prof. Seitz obtains for answer to this problem $2 \div \pi$, while Mr. Adcock gets $\frac{1}{2}\pi$. The difference in these results arises from different conceptions of the problem. In both solutions the first chord is supposed to be drawn from any fixed point to every other point in the semi circumf., and in Mr. Seitz's solution the intersections are supposed to occur at equidistant points on the first chord; while in Mr. Adcock's solution the second chord is supposed to be drawn from equidist. points in the arc subt'd by the first chord.

As these two methods give different results, and no good reason is apparent why one should be adopted rather than the other, we dismiss the quest. for the present and until further discussed by our contributors.

Solutions of 353 and 354 (incorrectly printed 353 at p. 104) will be published in the Sept. No.—Ed.]

PROBLEMS.

355. *By Benj. Headley, Dillsborough, Ind.*—The length of a garden, in the form of a parallelogram, is one rod greater than the breadth. Within the garden is a fountain; and a gravel walk extends diagonally across the garden, from corner to corner, and the distance from the fountain to one end of said walk is three rods, and to the other end four rods; and from this end of the walk, along one end of the garden, to the next corner, and from thence to the fountain, is eight rods. Required the area of the garden.

356. *By Prof. Casey.*—In a triangle ABC , BD is perpendicular to the base AC , and O is the center of gravity of the triangle. Join AO , DO & CO . Given the base AC and the angles AOD , AOC to construct the triangle ABC .

357. *By Prof. De Volson Wood.*—An elastic string without weight and of given length, has one end fixed in a perfectly smooth horizontal plane, and the other to a point in the surface of a sphere, the string being unwound. The sphere is projected on the plane from the fixed point with a linear velocity v and an angular velocity ω , winding the string on the circumference of a great circle; required the elongation of the string when fully stretched, and the subsequent motion of the sphere.

358. *By R. S. Woodward.*—Given the angles A , B and C of a plane triangle, and $d \log a$, $d \log b$ and $d \log c$; a , b , c being the sides respectively.

What are the corresponding values of dA , dB and dC expressed in seconds of arc?